

## OAQ Process Information Application PI-19: SURFACE COATING AND PRINTING OPERATIONS

State Form 52560 (2-06)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch** 100 N. Senate Avenue, Indianapolis, IN 46204

Telephone: (317) 233-0178 or
Toll Free: 1-800-451-6027 x30178 (within Indiana)
Facsimile Number: (317) 232-6749
www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of this form is to obtain detailed information about the surface coating process. Complete one form for each coating operation (or group of identical coating operations).
- Detailed instructions for this form are available online at <a href="https://www.in.gov/idem/air/permits/apps/instructions/pi19instructions.html">www.in.gov/idem/air/permits/apps/instructions/pi19instructions.html</a>.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality.
   Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

PART A: Surface Coating Operations						
Part A summarizes the surface coating process. If there are multiple coating operations that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical coating operations units.						
1.	Unit ID:					
2.	Installation Date (actual or anticipated):					
3.	Number of Identical Units:					
4.	Application Method:	☐ Dipping ☐ Brus	shing Roll-coating [	Flow-coating	Spraying	
5.	5. If spray application is used, further specify the coating application method below.					
	☐ Not Applicable	☐ Air Atomi	zation	Airless		
	☐ Electrostatic Air Atomized ☐ Electrosta		atic Airless			
	☐ High Volume Low Pressure	(HVLP) Low Pres	sure Air Atomization   Otl	her: (specify)		
6.	Number of Guns Used when	coating:	□ Not Applicable			
7.	Number of Guns Supported by the compressor:		☐ Not Applicable			
8.	Type of Product and Material Coated:					
9.	Gallons of Coating Used per	Unit Coated:				
10. Maximum Production Rate: (specify units)						
					7	
			ary of Printing Process			
Part B summarizes the printing process. If there are multiple printing operations that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical printing operations units.						
11.	Unit ID:					
12.	Installation Date (actual or anticipated):					
13.	Number of Identical Units:					
14.	Press Type:	☐ Flexographic	☐ Heatset Lithographic	☐ Non-Heatset	Lithographic	
		Rotogravure	Other: (specify)			
15.	Paper Feed Type:	☐ Sheet ☐ Web				
16.	Maximum Line Speed:	feet per m	inute (fpm)			
17.	Maximum Printing Width:	feet (ft)				
18	Ink Type: (include MSDS)					

PART C: Coating Data					
Part C provides data about the coatings used in this process. <b>Complete this table once for each of the worst case coatings</b> and provide an MSDS for all of the coatings used in the process.					
19. Worst Case Coating: Indicate which of the worst case emissions scenario(s) that this coating represents.	☐ Highest VOC Content☐ Highest PM	_			
20. Coating Manufacturer:					
21. Material Identification:					
22. Batch Identification:					
23. Is the Coating Polymeric?	☐ Yes ☐ No				
24. Is this a Multipart Coating?	☐ Yes ☐ No				
A. What are the parts?					
B. What are the ratios of the parts?					
C. What is the flash-off?					
25. Is the Coating Thinned or Diluted prior to application?					
A. What is the thinner?					
B. What is the dilution ratio?					
C. What is the flash-off?	(specify):				
For the following items, provide as much of the data as is known about the coating. The instructions					
for this form include the formulas needed for these calculations.					
		A. As Supplied	B. As Applied		
26. Material Density (lbs/gal) (D <sub>C</sub> )					
27. Weight % Total Volatiles (water and o					
28. Weight % Water (W <sub>W</sub> )					
29. Weight % Solids (W <sub>N</sub> )					
30. Weight % VOC (W <sub>O</sub> )					
31. Volume % Total Volatiles (water and					
32. Volume % Water (V <sub>W</sub> )					
33. Volume % Solids(V <sub>N</sub> )					
34. Volume % VOC (V <sub>O</sub> )					
35. VOC Content, less water (lbs/gal)					
36. Weighted Average Density of the I	Not applicable				
37. Dilution Solvent Ratio (R <sub>D</sub> )	Not applicable				

This space was intentionally left blank.

PART D: Emission Factors and Control Equipment						
Part D identifies all emission factors used to calculate air emissions, as well as any control equipment or control technique for this process.						
38. Air Pollutant:	39. Emiss	ion Factor	40. Source of Emission Factor			
	value	units	(if not using AP-42, include calculations)			
Particulate Matter (PM)			☐ AP-42 ☐ Other ☐ N/A			
Particulate Matter less than 10µm (PM <sub>10</sub> )			☐ AP-42 ☐ Other ☐ N/A			
Particulate Matter less than 2.5μm (PM <sub>2.5</sub> )			☐ AP-42 ☐ Other ☐ N/A			
Hazardous Air Pollutants (specify):			☐ AP-42 ☐ Other ☐ N/A			
Volatile Organic Compounds (VOC)			☐ AP-42 ☐ Other ☐ N/A			
Other (specify):			☐ AP-42 ☐ Other ☐ N/A			
Other (specify):			☐ AP-42 ☐ Other ☐ N/A			
41. Add-On Control Technology: Identify all control technology	chnologies us	ed for this unit	, and attach completed CE-01 (unless "none").			
□ None						
☐ Baghouse / Fabric Filter – Attach CE-02.		] Absorption	/ Wet Collector / Scrubber – Attach CE-05.			
Oxidizer / Incinerator — Attach CE-06.		] Adsorber –	· Attach CE-07.			
Condenser – Attach CE-08.	☐ NO <sub>X</sub> Reduction — Attach CE-09.					
☐ Dry Filters – Attach CE-10.	☐ Waterwash— Attach CE-10.					
Other (specify):	- Attach CE-10.					
42. Control Techniques: Identify all control technique	s used for th	is process.				
<b>43. Process Limitations / Additional Information</b> : Identify any acceptable process limitations. Attach additional information if necessary.						
,						

This space was intentionally left blank.

PART E: Federal Rule Applicability							
Par	Part E identifies any federal rules that apply to the process.						
44.	Is a <b>New Source Performance Standard (NSPS)</b> applicable to this source?  If yes, attach a completed FED-01 for each rule that applies.			45. Unit ID:			
	☐ 40 CFR Part 60, Subpart Kb	Volatile Organic Liquid Storage					
	☐ 40 CFR Part 60, Subpart EE	Surface Coating of Metal Furniture					
	☐ 40 CFR Part 60, Subpart MM	Auto and Light Duty Truck Surface Coating	Operations				
	☐ 40 CFR Part 60, Subpart QQ	Graphic Arts Industry: Publication Rotograv	/ure Printing				
	☐ 40 CFR Part 60, Subpart RR	Pressure Sensitive Tape and Label Surface Coating Operations					
	☐ 40 CFR Part 60, Subpart SS	Industrial Surface Coating: Large Appliance	es				
	☐ 40 CFR Part 60, Subpart TT	Metal Coil Surface Coating					
	☐ 40 CFR Part 60, Subpart WW	Beverage Can Surface Coating Industry					
	☐ 40 CFR Part 60, Subpart FFF	Flexible Vinyl and Urethane Coating and Printing					
	☐ 40 CFR Part 60, Subpart SSS	Magnetic Tape Coating Facilities					
	☐ 40 CFR Part 60, Subpart TTT	Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines					
	☐ 40 CFR Part 60, Subpart VVV	Polymeric Coating of Supporting Substrate					
46.	Is a <b>National Emission Standard for Hazardous Air Pollutants (NESHAP)</b> applicable to this source? <i>If yes, attach a completed FED-01 for each rule that applies.</i>						
	☐ 40 CFR Part 63, Subpart GG	Aerospace					
	☐ 40 CFR Part 63, Subpart IIII	Auto and Light Duty Truck Surface Coating	l .				
	☐ 40 CFR Part 63, Subpart VVVV	Boat Manufacturing					
	40 CFR Part 63, Subpart OOOO	Fabric Printing Coating and Dyeing					
	☐ 40 CFR Part 63, Subpart NNNN	Large Appliances Surface Coating					
	☐ 40 CFR Part 63, Subpart EE	Magnetic Tape Surface Coating					
	☐ 40 CFR Part 63, Subpart KKKK	Metal Can Surface Coating					
	☐ 40 CFR Part 63, Subpart SSSS	Metal Coil Surface Coating					
	☐ 40 CFR Part 63, Subpart RRRR	Metal Furniture Surface Coating					
	☐ 40 CFR Part 63, Subpart MMMM	art 63, Subpart MMMM Miscellaneous Metal Parts and Products Surface Coating					
	☐ 40 CFR Part 63, Subpart JJJJ	R Part 63, Subpart JJJJ Paper and Other Web Coating					
	☐ 40 CFR Part 63, Subpart PPPP	Plastic Parts Surface Coating					
	☐ 40 CFR Part 63, Subpart KK	Printing and Publishing Surface Coating					
	☐ 40 CFR Part 63, Subpart WWWW	Reinforced Plastic Composites Production					
	☐ 40 CFR Part 63, Subpart II	Ship Building and Ship Repair Surface Coa	ating				
	☐ 40 CFR Part 63, Subpart QQQQ	Wood Building Products					
	☐ 40 CFR Part 63, Subpart JJ	Wood Furniture Surface Coating					
48.	<b>Non-Applicability Determination</b> : Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.						